



UNIL | Université de Lausanne

# COURSES TAUGHT IN ENGLISH OPEN TO EXCHANGE STUDENTS

academic year 2023-2024

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(subject to changes)*

# FACULTY OF BUSINESS AND ECONOMICS

## UNDERGRADUATE COURSES

A more detailed description of the course is available on [www.unil.ch/hec/bachelor](http://www.unil.ch/hec/bachelor)

### bachelor of science in economics, bachelor of science in management (2<sup>nd</sup> year)

key  
H/W Hours per week  
C ECTS Credits

Course	Faculty staff	Semester	H/W	C
Consolidated Financial Statements and External Control	Dousse V. ; Bytyqi B	Autumn	4	4.5
Information Systems	Cherubini M. ; Gaspoz C.	Autumn	4	6
Principles of marketing	Czellar S.	Autumn	4	6
Communication and Leadership	Jost Matthieu ; Tilston Otilie	Spring	4	4.5
Microeconomic analysis (Analyse économique : microéconomie)	Bruhin Adrian ; Montez Joao	Spring	4	6
Operation Management (Gestion des opérations)	Lurkin Virginie	Spring	2	3
Principles of finance and exercices (Principes de finance et exercices)	Rockinger M. ; Luise Eisfeld	Spring	4	6
Risk Management	Wagner J.	Spring	2	3

### bachelor of science in economics

Course	Faculty staff	Semester	H/W	C
Critical Thinking	Szemerédi Z.	Autumn	4	6
Economics of Health and Healthcare	Maurer J.	Autumn	4	6
Microeconomics II	Gallo O. ; Ramezani R.	Autumn	4	6
Quantitative Macroeconomics	Eyquem A.	Autumn	2	3
Financial Markets	Celentano Francesco	Spring	4	6
Innovation for Happiness	Leclerc Fabrice	Spring	2	3
International Money and Finance	Bacchetta Philippe ; Davenport Margaret	Spring	4	6
International Trade and European Integration	Milet Emmanuel ; Brühlhart Marius	Spring	4	6
Introduction to Financial Statement Analysis and Reporting	Markarian Garen	Spring	2	3
Market Design and the Economics of Asymmetric Information	Hakimov Rustamdjan; Santos Pinto Luis	Spring	4	6
Monetary theory and policy	Benigno Gianluca	Spring	4	6
Organization and markets	Zanarone G.	Spring	2	3
Statistics and Econometrics II (+ exercises)	Staubli D.; Hüber M.	Spring	4	6

## bachelor of science in management

Course	Faculty staff	Semester	H/W	C
B-to-B Marketing	Christen M.	Autumn	4	6
Critical Thinking	Szemerédi Z.	Autumn	4	6
Design Sustainable Behavior	Vogt S.	Autumn	2	3
Digital Business Processes and Enterprise Systems	Legner C.	Autumn	4	6
Economics of Health and Healthcare	Maurer J.	Autumn	4	6
Essentials and toolbox for future innovators	De Wolff J.	Autumn	2	3
Foundations of AI: Principles and Applications of AI in business	Shrestha Y-R.	Autumn	2	3
Organizational soft-skills: From presentation techniques to group management	Marewski J.	Autumn	2	3
Consumer Behavior (BScM)	Petersen Francine	Spring	4	6
Corporate Sustainability: The Environmental Perspective	Ionescu Aileen	Spring	2	3
Entrepreneurial finance and the new venture funding process	Petty Jeffrey	Spring	4	6
Financial Markets	Celentano Francesco	Spring	4	6
Innovation for Happiness	Leclerc Fabrice	Spring	2	3
Integrated Marketing Communication	Schlager Tobias	Spring	2	3
International Money and Finance	Bacchetta Philippe ; Davenport Margaret	Spring	4	6
Introduction to Bargaining and Negotiations	Efferson Charles	Spring	2	3
Introduction to Financial Statement Analysis and Reporting	Markarian Garen	Spring	2	3
Judgment and Decision Making	Hoffrage Ulrich	Spring	2	3
Marketing Research	Czellar Sandor	Spring	4	6
Organization and markets	Zanarone G.	Spring	2	3
Practical Operation Management	Hameri Ari-Pekka	Spring	4	6
Risk Savvy	Hoffrage Ulrich	Spring	2	3

## GRADUATE COURSES

In order to attend master's degree courses, exchange students must have completed a bachelor's degree or a minimum of 3 years specialised study. Also some courses may require specific prerequisites and the approval of the master programme's director. A more detailed description of the courses is available on [www.unil.ch/hec/en/masters](http://www.unil.ch/hec/en/masters)

## master of science in economics

key  
H/W Hours per week  
C ECTS Credits

Course	Faculty staff	Semester	H/W	C
Applied Mathematics	Strimbu Octavian Petru	Autumn	1	1.5
Behavioral Economics	Santos Pinto Luis Pedro	Autumn	4	6

## FACULTY OF BUSINESS AND ECONOMICS

Course	Faculty staff	Semester	H/W	C
Development Economics	Nigmatulina Dzhamilya	Autumn	4	6
Dynamic Macroeconomic Models	Eyquem Aurélien	Autumn	4	6
Econometrics	Huber Martin	Autumn	5	7.5
Economic Analysis and Communication	Strimbu O.	Autumn	4	6
Economic Forecasting for Decision Making	Grobéty Mathieu	Autumn	4	6
Economic Policy Seminar	Maurer Jürgen	Autumn	4	6
Genes, Population and Evolution	Lehmann Laurent	Autumn	4	6
Health Economics	Dusheiko Mark	Autumn	4	6
Human Behavior and Evolutionary Inference	Efferson Charles	Autumn	4	6
Leadership Development	Bendahan Samuel	Autumn	2	3
Macroeconomic Policy	Benhima Kenza	Autumn	4	6
Macroeconomics	Tièche S. / Phillot M.	Autumn	5	7.5
Macroeconomics of Financial Crises	Benigno Gianluca	Autumn	4	6
Mathematics for Economic Policy	Strimbu Octavian Petru	Autumn	1	1.5
Mathematics for Economics and Finance	Schuerhoff Norman	Autumn	4	6
Microeconomics	Feizi M.	Autumn	5	7.5
Organizational Theory and Decision Making	Grieder M.	Autumn	4	6
Regulatory Economics	Thoeni Christian	Autumn	2	3
Advanced Data Analysis	Scheidegger S. (on leave) ; Karyampas D./ Didisheim	Spring	4	6
Advanced Programming	Scheidegger S. (on leave) ; Eftekhari A.	Spring	4	6
Advanced Topics in Industrial Organization (ATIO)	Hakimov R. ; Strimbu O.	Spring	4	6
Behavior, Economics, and Evolution Lecture Series	Lehmann Laurent ; Santos Pinto Luis	Spring	4	6
Business Cycles	Siena Daniele	Spring	4	6
Economic Growth	Rotesi Tiziano	Spring	4	6
Environmental Economics	Houde Sébastien	Spring	4	6
Experimental Methods	Hakimov Rustamdjan	Spring	4	6
Financial Institutions & Regulation	Bruhin Adrian	Spring	4	6
Game Theory	Santos Pinto Luis Pedro	Spring	4	6
International Macroeconomics	Bacchetta Philippe	Spring	4	6
Macroeconometrics	Renne Jean-Paul	Spring	4	6
Political and Institutional Economics	Rohner Dominic	Spring	4	6
Public Economics	Fourati Maleke	Spring	4	6
The Evolution of Cooperation : from Genes to Learning and Culture	L. Lehmann	Spring	2	3

## master of science in finance

Course	Faculty staff	Semester	H/W	C
Alternative Investments	Cho Thomas Kyung-Ha	Autumn	4	6
Blockchain and Crypto Economy	Ivliev S.	Autumn	2	3
CFA General Research Challenge	Schuerhoff Norman	Autumn	4	6
Corporate Finance (MSc in Finance)	Dimopoulos Theodosios	Autumn	4	6
Datascience for Finance	Zhao Ziwei, Cottet T.	Autumn	4	6
Entrepreneurship & Strategy	Tsukanova Tatyana	Autumn	4	6
Evidence-Based Management	Dietz J.	Autumn	4	6
Finance Ethics	Fiole Eelco	Autumn	2	3
Financial Accounting	Markarian Garian	Autumn	4	6
Fraud and Business Process Analytics	Baumgartner Marcel	Autumn	2	3
Global Marketing	Eckardt Thilo	Autumn	2	3
Heuristic Decision Making Strategies	Marewski J.	Autumn	4	6
Human Decision-Making and the SDGs	Vogt S.	Autumn	4	6
Integrated Marketing Communications	Prof. externe	Autumn	4	6
International Finance	Zhao Ziwei	Autumn	4	6
Investments	Cujean J.	Autumn	5	6
Luxury Marketing	Morhart Felicitas	Autumn	4	6
Managing Risk in Financial Institutions	Weigert Florian	Autumn	2	3
Market Microstructure	Riva F.	Autumn	2	3
Marketing Science	Christen Markus	Autumn	4	6
Mathematics for Economics and Finance	Schuerhoff Norman	Autumn	4	6
Mergers & Acquisitions / Corporate Structuring	Grognoz C. / Nikolov B.	Autumn	4	6
Optimization Methods in Management	Oeuvray Rodrigue	Autumn	4	6
Private Equity & Venture Capital	Dimopoulos Theodosios	Autumn	4	6
Quantitative Asset and Risk Management II	Alessandrini Fabio	Autumn	4	6
Topics in Finance	Balocchi Giuseppe	Autumn	2	3
Unethical Decision Making - Basics	Palazzo G. / Hoffrage U.	Autumn	2	3
Unethical Decision Making – Advanced	Palazzo G. / Hoffrage U.	Autumn	2	3
Advanced Data Analysis	Scheidegger S. (on leave) ; Karyampas D./ Didisheim	Spring	4	6
Advanced Programming	Scheidegger S. (on leave) ; Eftekhari A.	Spring	4	6
Asset Pricing	Bretscher L.	Spring	4	6
Derivatives	Bretscher Lorenzo	Spring	4	6
Empirical Methods in Finance	Jondeau Eric	Spring	4	6

Course	Faculty staff	Semester	H/W	C
Financial Analysis	Froidevaux Julien	Spring	4	6
Fixed Income and Credit Risk	Rockinger Michael	Spring	4	6
Quantitative Asset and Risk Management	Jondeau Eric	Spring	4	6
Real Estate Investments	Celentano Francesco	Spring	2	3
Valuation	Valta Philip	Spring	4	6

## master of science in management

Course	Faculty staff	Semester	H/W	C
Advanced Issues in International & European Tax Law	Danon Robert	Autumn	2	3
Applied Corporate Strategy	Borghi G. ; Poylo Marine. ; Barras N.	Autumn	2	3
Behavioral Economics	Santos Pinto Luis Pedro	Autumn	4	6
Business and Society - Corporate Sustainability	Philippe D.	Autumn	4	6
Data Science for Marketing	Schlager Tobias	Autumn	4	6
Data Science in Business Analytics	Vatter T.	Autumn	4	6
Digital Strategies and Innovation	Missonier S.	Autumn	4	6
Digitalisation of Purchasing and B to B Sales	Lacoste Sylvie	Autumn	2	3
Entrepreneurship & Strategy	Tsukanova Tatyana	Autumn	4	6
Entrepreneurship, Innovation and Control Systems	Davila Antonio	Autumn	2	3
Evidence-Based Management	Dietz J.	Autumn	4	6
Fraud and Business Process Analytics	Baumgartner Marcel	Autumn	2	3
Genes, Population and Evolution	Lehmann Laurent	Autumn	4	6
Global Marketing	Eckardt Thilo	Autumn	2	3
Heuristic Decision Making Strategies	Marewski J.	Autumn	4	6
Human Behavior and Evolutionary Inference	Efferson Charles	Autumn	4	6
Human Decision-Making and the SDGs	Vogt S.	Autumn	4	6
Integrated Marketing Communications	Prof. externe	Autumn	4	6
Leadership Development	Bendahan Samuel	Autumn	2	3
Luxury Marketing	Morhart Felicitas	Autumn	4	6
Managerial Decision Making	Hoffrage U.	Autumn	4	6
Marketing Science	Christen Markus	Autumn	4	6
Optimization Methods in Management	Oeuvray Rodrigue	Autumn	4	6
Organizational Theory and Decision Making	Grieder M.	Autumn	4	6
Programming Tools in Data Science	Orso Samuel	Autumn	4	6
Quantitative Methods for Management	Reboulleau Jérôme	Autumn	4	6
Risk Analytics	Chavez Valérie	Autumn	4	6

Course	Faculty staff	Semester	H/W	C
Social Norms Change	Vogt S.	Autumn	4	6
Strategic Management	Amer Maisttriau E.	Autumn	4	6
Strategic Management Control Systems	Derchi G. / Davila A.	Autumn	4	6
Strategic Marketing	Engeler isabelle	Autumn	4	6
Strategy and Development Modes	Castaner Xavier	Autumn	4	6
Strategy in Digital Markets	Peukert C.	Autumn	4	6
Strategy of Innovation	Peukert C.	Autumn	2	3
Supply Chain Management and its Latest Trends	Hameri Ari-Pekka	Autumn	4	6
Text Mining	Baumgartner Marcel	Autumn	2	3
Unethical Decision Making - Basics	Palazzo G. / Hoffrage U.	Autumn	2	3
Unethical Decision Making – Advanced	Palazzo G. / Hoffrage U.	Autumn	2	3
Advanced Data Analysis	Scheidegger S. (on leave) ; Karyampas D./ Didisheim	Spring	4	6
Advanced Programming	Scheidegger S. (on leave) ; Eftekhari A.	Spring	4	6
Advanced Project Management & Outsourcing in a Digital Era	Bienz Pius	Spring	4	6
Analytics in Operations Management	Lurkin Virginie	Spring	2	3
Bargaining and Negotiations	Efferson Charles	Spring	4	6
Behavior, Economics, and Evolution Lecture Series	Lehmann Laurent ; Santos Pinto Luis	Spring	4	6
Brand Management	Dabrowska-Leszczynska Agnieszka	Spring	2	3
Consumer Psychology	Petersen Francine	Spring	4	6
Developing Behavioral Insights and Nudging	Engeler Isabelle	Spring	2	3
Distribution Management	Eckardt Thilo	Spring	4	6
Environmental Crisis and Societal Changes	Palazzo Guido ; Vedjovsky Boris	Spring	2	3
Environmental Economics	Houde Sébastien	Spring	4	6
Forecasting 1	Baumgartner Marcel	Spring	2	3
Forecasting 2	Chavez Valérie	Spring	2	3
Grand Challenges Strategy Project	Haak Patrick	Spring	4	6
Group Processes	Krings Franciska	Spring	4	6
Innovation Law	Junod Valérie	Spring	2	3
International Strategy	Zanarone G.	Spring	4	6
Machine Learning in Business Analytics	Boldi Marc-Olivier	Spring	4	6
Managing People : Organizational Design, Change, and Performance	Dietz Jörg	Spring	4	6
Multicriteria Decision Analytics	Thiémarc M.	Spring	2	3
Power and Leadership	Tur Benjamin	Spring	4	6
Social Well Being	Petersen Francine	Spring	4	6

Course	Faculty staff	Semester	H/W	C
Supply Chain Network Design and Planning	Stauffer Gautier	Spring	4	6
Sustainable Innovation Challenge	Petty Jeffrey	Spring	2	3
Sustainable Logistics	Gallay Olivier	Spring	4	6
Sustainability Strategy Project	Aeschlimann S. ; Fischer C.	Spring	4	6

## master of science in actuarial science

Course	Faculty staff	Semester	H/W	C
Actuarial Data Science	Nagler T.	Autumn	2	3
Actuarial Modelling	Hashorva Enkelejd	Autumn	4	6
Asset and Liability Management for Actuaries	Wagner Joel	Autumn	4	6
Blockchain and Crypto Economy	Ivliev S.	Autumn	2	3
Computational Tools for Actuaries	Zucchinietti Giovanni	Autumn	4	6
Credibility Theory	Smith Nathaniel	Autumn	4	3
Financial Accounting	Markarian Garian	Autumn	4	6
Insurance Analytics	Hieber Peter	Autumn	2	3
Insurance Economics	Wagner Joël	Autumn	2	3
Investments	Cujean J.	Autumn	5	6
Life Contingencies II	Ratovomirija G.	Autumn	4	6
Mathematics of Compound Interest	Tamraz M.	Autumn	2	3
Principles of Finance	Roger T.	Autumn	4	6
Probability and Stochastic Processes	Albrecher Hansjoerg	Autumn	4	6
Quantitative Methods for Actuaries	Loisel Stéphane	Autumn	5	6
Advanced Programming	Scheidegger S. (on leave) ; Eftekhari A.	Spring	4	6
Life Contingencies I	Dufresne François	Spring	4	6
Loss Models	Hashorva Enkelejd	Spring	4	6
Ratemaking and Claims Reserving	Hieber Peter	Spring	2	3
Risk Theory	Albrecher Hansjoerg	Spring	4	6
Simulation Methods in Finance and Insurance	Tamraz Maissa	Spring	2	3
Social Insurance	Arnold Séverine	Spring	2	3
Time Series	Hashorva Enkelejd	Spring	2	3

## master of law in law and economics

Course	Faculty staff	Semester	H/W	C
Advanced Group Accounting	André Paul	Autumn	2	3
Advanced Issues in International & European Tax Law	Danon Robert	Autumn	2	3



## FACULTY OF BUSINESS AND ECONOMICS

Course	Faculty staff	Semester	H/W	C
Business and Society - Corporate Sustainability	Philippe D.	Autumn	4	6
Econometrics	Huber Martin	Autumn	5	7.5
Empirical Methods for Lawyers	Thoeni Christian	Autumn	4	6
Entrepreneurship, Innovation and Control Systems	Davila Antonio	Autumn	2	3
Finance Ethics	Fiole Eelco	Autumn	2	3
International Tax Disputes & Investment Treaty Arbitration	Danon Robert	Autumn	2	3
Leadership Development	Bendahan Samuel	Autumn	2	3
Managerial Decision Making	Hoffrage U.	Autumn	4	6
Microeconomics & Game Theory	Thoeni Christian	Autumn	4	6
Regulatory Economics	Thoeni Christian	Autumn	2	3
Topics in Finance	Balocchi Giuseppe	Autumn	2	3
Unethical Decision Making - Basics	Palazzo G. / Hoffrage U.	Autumn	2	3
Advanced Financial Analysis	André Paul	Spring	2	3
Advanced Project Management & Outsourcing in a Digital Era	Bienz Pius	Spring	4	6
Digitalisation and Taxation	Chand Vikram	Spring	2	3
Environmental Crisis and Societal Changes	Palazzo Guido ; Vedjovsky Boris	Spring	2	3
Financial Institutions & Regulation	Bruhin Adrian	Spring	4	6
Innovation Law	Junod Valérie	Spring	2	3
International Corporate and Individual Taxation – International and European Perspective	Chand Vikram	Spring	4	6
International Tax Relation	P. Saint-Amans	Spring	2	3
Managing Contractual Relationship	Zanarone Giorgio	Spring	4	6
Political and Institutional Economics	Rohner Dominic	Spring	4	6
Power and Leadership	Tur Benjamin	Spring	4	6
Simple Rules for Leadership and Strategy: A Practical Approach	J. Marewski	Spring	4	6
Sustainable Innovation Challenge	Petty Jeffrey	Spring	2	3

## master of science in information systems

Course	Faculty staff	Semester	H/W	C
Data Mining and Machine Learning	Vlachos Michalis	Autumn	4	6
Digital Strategies and Innovation	Missonier S.	Autumn	4	6
Enterprise Data and Integration	Estier Thibault	Autumn	4	6
Ethical Business Modeling and Innovation Design	Avdiji Hazbi; Elikan Dina Wicht Pascal	Autumn	4	6
Information Security & Privacy	Huguenin Kevin	Autumn	4	6
Software Architectures	Garbinato Benoît	Autumn	4	6

Course	Faculty staff	Semester	H/W	C
Strategy in Digital Markets	Peukert C.	Autumn	4	6
Advanced Project Management & Outsourcing in a Digital Era	Bienz Pius	Spring	4	6
Business and IS Design	Legner Christine	Spring	4	6
Cloud and Advanced Analytics	Vlachos Michalis	Spring	4	6
Interaction Design	Cherubini Mauro	Spring	4	6
Management of AI in Organizations	Shrestha Y.	Spring	4	6
Research Introduction Seminar : Computer Science research Methodology	Garbinato Benoît; Humbert Mathias	Spring	2	3
Research Introduction Seminar : Qualitative research and Design Science research	Missonier Stéphanie ; Legner Christine	Spring	2	3
Sustainable Innovation Challenge	Petty Jeffrey	Spring	2	3
Technical and Economical Aspects of Cybersecurity	Humbert Mathias	Spring	4	6

## SCHOOL OF BIOLOGY

## UNDERGRADUATE COURSES

A more detailed description of the course is available on [www.unil.ch/programmes](http://www.unil.ch/programmes)

## bachelor of science in biology

key  
C

ECTS Credits

Course	Faculty Staff	Semester	C
<b>BSc 2<sup>nd</sup> and 3<sup>rd</sup> year</b>			
Chemosensory Perception : from Genes to Behaviour	Benton R.	Autumn	1
Sleep and Circadian Rhythms : from Molecules to Performance	Franken P.	Autumn	1
Case Studies in Conservation Biology	Wedekind C.	Spring	1
Introduction to the Analysis of Plant Lipids	Nawrath C.	Spring	1
Molecular Machines	Fasshauer D.	Spring	1
<b>BSc 3<sup>rd</sup> year</b>			
From Mutation to Gene Function	Santiago Cuellar J.	Autumn	2
Principles of Molecular Biophysics	Fasshauer D.	Autumn	2
Molecular Evolution	Robinson-Rechavi M.	Autumn	2
Population Biology and Conservation	Wedekind C.	Autumn	2,5
<b>Advanced Molecular, Cellular and Developmental Biology module</b>	Jean-Yves Roignant	Spring	9
- Molecular Basis of Cancer			
- Cell Cycle, DNA Replication and Recombination			
- Proteasome Degradation			
- Circadian Clocks			
- Introduction to Reading and Presentation of Scientific Literature			
- Post-transcriptional Gene Regulation and Recombination			
- Body Patterning			
- Understanding & Interpretation of Scientific Literature			
<b>Genetics and Genome Evolution module</b>	Alexandre Reymond	Spring	9
- Bioinformatics for Genomics			
- Epigenetics			
- Epistasis, Oligogenicity, Pleiotropy and beyond			

Course	Faculty Staff	Semester	C
<ul style="list-style-type: none"> <li>- Genome Wide Association Studies</li> <li>- Evolution of Chromosomes</li> <li>- Cancer Genetics</li> <li>- Bacterial Genomes and Evolution</li> <li>- Structural Genomics and Mutation</li> <li>- Introduction to Quantitative Genetics</li> </ul>			
<p><b>The Dynamic Cell module</b></p> <ul style="list-style-type: none"> <li>- Cilia: Cellular Antennae - Structure, Function, Evolution and Disease</li> <li>- Cell Cycle Control of Genome Duplication and Segregation</li> <li>- Dynamics and Organisation of the Plasma Membrane</li> <li>- Scientific writing</li> <li>- Evolution of the Eukaryotic Cell</li> <li>- Homeostasis of Proteins and Lipids in Intracellular Compartments</li> <li>- Cryo-Electron Microscopy in Cell Biology</li> <li>- Cell Division : When, Where, How?</li> <li>- Cell Division in Bacteria</li> <li>- Chloroplast Origin, Division and Dynamics</li> <li>- Bacterial Cell Cycle Regulation</li> <li>- Critical Reading of the Scientific Literature</li> </ul>	Stephan Gruber	Spring	9
<p><b>Biotic Interactions module</b></p> <ul style="list-style-type: none"> <li>- Bacteria-Hosts</li> <li>- Fungi-Hosts</li> <li>- Endosymbionts and Bacterial Parasites</li> <li>- Bee Microbiome</li> <li>- Parasites</li> <li>- Plants-Insects</li> <li>- Viruses-Hosts</li> <li>- Practical Work : Introduction to Research</li> <li>- Journal Club</li> </ul>	Jérôme Gouttenoire	Spring	9
<p><b>Biology of Cancer module</b></p> <ul style="list-style-type: none"> <li>- Introduction to Molecular Mechanisms of Cancer</li> <li>- Experimental Models and Approaches to Study Cancer</li> <li>- Genetics and Epigenetics of Cancer</li> <li>- Bioinformatics and modeling for personalized oncology</li> <li>- The Tumor Microenvironment and Immunotherapy</li> </ul>	Margot Thome	Spring	9

SCHOOL OF BIOLOGY

Course	Faculty Staff	Semester	C
<ul style="list-style-type: none"> <li>- Tumor Metastasis</li> <li>- Metabolism of cancer</li> <li>- Presentation and Discussion of Scientific Articles</li> <li>- Introduction to the Understanding of Scientific Articles</li> </ul>			
<p><b>Modelling in Biology and Bioinformatics module</b></p> <ul style="list-style-type: none"> <li>- Modelling / Bioinformatics Project</li> <li>- Mathematics in Biology</li> <li>- Introduction to Machine Learning</li> <li>- Introduction to Image Analysis</li> <li>- Advanced Programming and Algorithms</li> <li>- Bayesian Inference and Markov Models</li> </ul>	Nicolas Salamin	Spring	9

# FACULTY OF GEOSCIENCES AND ENVIRONMENT

## GRADUATE COURSES

There are no undergraduate courses taught in English in this faculty.  
Some courses may require specific prerequisites and the approval of the master programme's director.  
A more detailed description of the course is available on [www.unil.ch/programmes](http://www.unil.ch/programmes)

### master of science in environmental science

Course	Faculty staff	Semester	C
Advanced Geospatial Data Analysis. Practical concepts and environmental applications	M. Tonini	Autumn	3
Advanced quantitative risk and vulnerability	Michel Jaboyedoff	Autumn	3
Alpine periglacial environments	Christophe Lambiel	Autumn	4
Applications of environmental science seminar series	Nathalie Chèvre (coord.), Marc-Henri Derron, Niklas Linde, Jürg Hünziker	Autumn	1
Communication on environmental risks	Michel Jaboyedoff	Autumn	3
Dates and rates of Mountain evolution	Georgina King	Autumn	4
Environmental time-series analysis	James Irving	Autumn	5
Environmental toxicology	Nathalie Chèvre	Autumn	3
Fluid flow and transport in the subsurface	Pietro De Anna	Autumn	6
Introduction to scientific programming (with Python)	Tom Beucler	Autumn	2
Machine learning for Earth and environmental Sciences	Tom Beucler	Autumn	5
Monitoring techniques for slope dynamics	Marc-Henri Derron	Autumn	5
Mountain streams; sediment management	Stuart Lane	Autumn	4
Principle of scientific data acquisition	C. Schmidt	Autumn	3
Remote sensing of Earth Systems	G. Antoniazza, Grégoire Mariéthoz	Autumn	5
Scientific computing	Yury Podladchikov	Autumn	5
Tracing biogeochemical processes and fluxes using isotope analysis	Torsten Vennemann	Autumn	2
Field and laboratory methods (II): Alpine catchments	Marie-Elodie Perga, Stuart Lane	Autum and Spring	5
Aquatic ecosystems: glaciers, rivers, and lakes	Stuart Lane, Marie-Elodie Perga, G. Antoniazza	Spring	5
Erosion and slope movements	Michel Jaboyedoff	Spring	5

#### key

- C** ECTS Credits  
\* Participation subject to certain conditions. Contact: [manon.bourqui@unil.ch](mailto:manon.bourqui@unil.ch)

## FACULTY OF GEOSCIENCES AND ENVIRONMENT

Course	Faculty staff	Semester	C
Field and laboratory methods (I): The UNIL campus as a microcosm	Nathalie Chèvre (resp.) Jasmine Berg, Torsten Vennemann	Spring	5
Flood risk modeling	G. Antoniazza	Spring	5
GIS-based analysis for mountain geomorphology	Christophe Lambiel	Spring	3
Hazards and risks of slope mass movements: field camp	Marc-Henri Derron, Michel Jaboyedoff	Spring	5
Model parameter estimation and uncertainty quantification	Niklas Linde, Jürg Hunziker	Spring	5
Risk management (monitoring, early warning, post-disaster preparedness)	Michel Jaboyedoff	Spring	2
Risk quantification and insurance	M. Jaboyedoff, L. Marescot	Spring	2
Statistical analysis in environmental sciences	X. Dupla, O. Broennimann	Spring	3
Watershed and river network modelling	Nadav Peleg	Spring	5
Weather and climate dynamics	Daniela Domeisen	Spring	3

## master of science in earth sciences

Course	Faculty staff	Semester	C
Chemical analyses and imaging technique for major and trace element	M. Robyr	Autumn	3
Construction and interpretation of cross-sections in complex deformed areas	J-L. Epard	Autumn	3
Data science	T. Sheldrake, J. Irving	Autumn	4
Economics and management of Earth Resources Exploration and Development	A. Moscariello	Autumn	2
Exploration methods	B. Quintal	Autumn	2
Fluids in the crust	M. Lupi	Autumn	4
From outcrop to 3d model	M.-H. Derron	Autumn	3
Geophysics across scales	G. Hetényi	Autumn	4
Life evolving with Earth	A. Daley, R. Martini	Autumn	4
Methods of isotope analysis	P. Nuriel, T. Vennemann	Autumn	3
Microtectonics	M. Robyr	Autumn	2
Physical-chemical mechanisms of geological processes	S. Schmalholz	Autumn	4
Simulating geological processes on computers and in the laboratory	Y. Podladchikov	Autumn	3
Surface processes and depositional environments from source to sink	S. Castelltort, E. Samankassou	Autumn	4
What can we learn from melt inclusions?	A.S. Bouvier	Autumn	2
Physical volcanology and volcanic risk	C. Bonadonna	Autumn and Spring	4
Applied mineralogy in resource exploration and modern technologies	K. Kouzmanov	Spring	2

Course	Faculty staff	Semester	C
Climate and paleoclimate: from deep time to Anthropocene	S. Jaccard, N. Zeyen	Spring	4
Data science	T. Shelldrake, J. Irving	Spring	4
Erosion and slope movement	M. Jaboyedoff	Spring	5
Field camp in Earth resources*	K. Kouzmanov, A. Moscariello, M. Lupi	Spring	3
Fluid and melt inclusions	Z. Zajacz	Spring	3
Gemmology	L. Cartier	Spring	3
Geo-energy exploration and development workflow	L. Guglielmetti	Spring	3
Geochemical cycles and rates of geological processes	M. Chiaradia , P. Nuriel	Spring	4
Geology of clays	T. Adatte	Spring	1,5
Great challenges in Earth and environmental sciences	J. Marin Carbonne, L. Caricchi	Spring	7
Integrated geo-energy seismic interpretation and 3D Modelling Workflows	A. Moscariello	Spring	3
Mineral, rocks and Magma	L. Caricchi, O. Müntener	Spring	4
Mountains belt in the field*	O. Müntener , J.-L. Epard	Spring	4
Ore deposit models	K. Kouzmanov, Z. Zajacz	Spring	4
Petrophysics and reservoirs	B. Quintal, A. Moscariello	Spring	3
Physical volcanology and volcanic risk	C. Bonadonna	Spring	4
Risk and desision making	C. Gregg, S. Menoni	Spring	4
Sedimentology analytics – Collecting, interpreting and presenting data	T. Adatte , R. Martini	Spring	4
Sedimentology, climate, paleontology et geomorphology Field camp*	A. Daley, S. Castelltort	Spring	4
Seismic risk	B. Duvernay, D. Fäh	Spring	3
Volcanic risk Field trip*	C. Bonadonna	Spring	4
Volcano Fieldtrip *	L. Caricchi, S. Pilet	Spring	2

\* Prerequisites are mandatory for fields trips. Please contact the ELSTE coordinator for more information (manon.bourqui@unil.ch).

### master of science in geography

Course	Faculty staff	Semester	C
Environmental and social safeguards project assessments	Gretchen Walters	Autumn	2
Thinking cities	Martin Müller, René Véron	Autumn	3
Analysis, visualisation and simulation of geographical networks	Céline Rozenblat	Spring	6
Building cities (only with compulsory course « Thinking cities »)	Martin Müller	Spring	3
Environmental management and livelihoods	Christian Kull	Spring	6



## master of science in biogeosciences

Course	Faculty staff	Semester	C
Soil and water chemistry	M. Keiluweit	Autumn	4
Statistical analyses in the environmental sciences	X. Dupla, O. Broennimann	Spring	3

## master of arts in foundations and practices of sustainability

Course	Faculty staff	Semester	C
Key issues in climate science	Daniela Domeisen	Spring	3

## FACULTY OF ARTS

## UNDERGRADUATE COURSES

A more detailed description of the course is available on [www.unil.ch/programmes](http://www.unil.ch/programmes)

## bachelor of arts, english department

	<b>Course</b>	<b>Faculty staff</b>	<b>Semester</b>	<b>H/W</b>	<b>C</b>
	Afropean lit and gender : Bernardine Evaristo	Valérie Cossy	Autumn	2	4
	Alice's Adventures in Wonderland : text, image, film	Martine Hennard Dutheil	Autumn	2	4
	American Gothic Literature	Agnieszka Soltysik Monnet	Autumn	2	4
	Anglo-American Literary Survey III	Rachel Falconer	Autumn	1	2
	Discovering Medieval Manuscripts	Denis Renevey	Autumn	2	4
	English Composition	Anita Auer, Boris Vejdovsky	Autumn	2	4
	Literary analysis: Sterne, Sentimental Journey	Valérie Cossy	Autumn	2	3
	Literary analysis: A Tale of Two Wives : Chaucer and Zadie Smith	Juliette Vuille	Autumn	2	3
	Literary analysis: Modernist Poetry	Nell Wasserstrom	Autumn	2	3
	Literary analysis: Oscar Wilde, Short Stories	Juliette Loesch	Autumn	2	3
	Literary analysis: Radical American Poetry	Benjamin Pickford	Autumn	2	3
	Literary analysis: Robert Macfarlane's The Wild Places	Rachel Falconer	Autumn	2	3
	Literary analysis: Shirley Jackson	Benjamin Pickford	Autumn	2	3
	Literary analysis: The Freedom of the Line: Walt Whitman's Leaves of Grass	Boris Vejdovsky	Autumn	2	3
	Literary analysis: The Interesting Narrative of Olaudah Equiano	Enit Steiner	Autumn	2	3
	Introduction to English language and linguistics (IELL)	Elvis Coimbra Gomes	Autumn	1	1
	Introduction to Literary Analysis	Nell Wasserstrom	Autumn	2	6
	Johnny Keats : Poetry and Letters	Rachel Falconer	Autumn	2	4
	Linguistics: Bilingualism	Esther de Leeuw	Autumn	2	4
	Linguistics: Language Attitudes: English around the World	Laura Tresch	Autumn	2	4
	Linguistics: Old Irish II	Marion Patricia Ronan	Autumn	2	4
	Medieval : Estates Satire in the Canterbury Tales	Rory Critten	Autumn	2	4
	Medieval : Introduction to Old Norse	Juliette Vuille	Autumn	2	4
	Medieval : Reading Old English Poetry	Juliette Vuille	Autumn	2	4

key

H/W

Hours per week

C

ECTS Credits

## FACULTY OF ARTS

Course	Faculty staff	Semester	H/W	C
Medieval : The Monstrous Feminine in Middle English Literature	Lucie Kaempfer	Autumn	2	4
Medieval: The Boundaries of Love, 1200-1450	Diana Denissen	Autumn	2	4
Milton's Paradise Lost	Rachel Falconer	Autumn	2	4
Rebellious Middle-Aged Women in Late-Medieval Literature	Diana Denissen	Autumn	2	4
Synchronic Linguistics: Acoustic Analysis of Speech	Esther de Leeuw	Autumn	2	3
Synchronic Linguistics: English Dialects Past and Present	Anita Auer	Autumn	2	3
Synchronic Linguistics: Introduction to Discourse Analysis	Elvis Coimbra Gomes	Autumn	2	3
The Development of the English Language	Anita Auer	Autumn	1	1
The Gospels in Literature	Kirsten Anne Stirling	Autumn	2	4
The Seven Sages of Rome in England and the World	Rory Critten	Autumn	2	4
The Shakespeare Workshop	Kevin Curran	Autumn	2	4
Woolf and Joyce	Rachel Falconer	Autumn	2	4
Writing the Self in the Contemporary US	Agnieszka Soltysik Monnet	Autumn	2	4
Anglo-American Literary Survey 1&2	Kevin Curran, Enit Steiner	Autumn & Spring	1	2
English Composition	Anita Auer, Boris Vejdovsky	Autumn & Spring	2	4
Introduction to English language and linguistics (IELL)	Elvis Coimbra Gomes	Autumn & Spring	1	1
Introduction to Literary Analysis	Matthew Scully, Kirsten Anne Stirling, Boris Vejdovsky, Enit Steiner, Martine Hennard Dutheil, Philip Lindholm,	Autumn & Spring	2	6
Practicing English Proficiency - PEP	Elvis Coimbra Gomes	Autumn & Spring	1	
Beowulf and Its Analogues	Juliette Vuille	Spring	2	4
Discovering the West: Europe Through Indian Eyes (1750-1900)	Philippe Borne, Enit Steiner	Spring	2	4
EcoFiction	Agnieszka Soltysik Monnet	Spring	2	4
Ernest Hemingway and the Art of the Short Story	Boris Vejdovsky	Spring	2	4
Ethnic American Literature	Matthew Scully	Spring	2	4
Literary analysis: A Language of Place: Nature and Gender in British Women's Poetry	Fiona Lamon	Spring	2	3
Literary analysis: Charles Dickens, Great Expectations	Martine Hennard Dutheil	Spring	2	3
Literary analysis: Contemporary New Nature Writing	Rachel Falconer	Spring	2	3
Literary analysis: English Renaissance Drama	Kevin Curran	Spring	2	3
Literary analysis: Introduction to Comparative Literature	Martine Hennard Dutheil	Spring	2	3
Literary analysis: Modernist Poetry	Rachel Falconer	Spring	2	3

Course	Faculty staff	Semester	H/W	C
Literary analysis: tbd	Valérie Cossy	Spring	2	3
Literary analysis: The Early Fiction of Michelle Cliff	Agnieszka Soltysik Monnet	Spring	2	3
Literary analysis: Transatlantic Romantic Poetry	Philip Lindholm	Spring	2	3
Female Modernist Eroticisms	Rachel Falconer	Spring	2	4
Humanity according to Jane Austen and Mary Shelley	Valérie Cossy	Spring	2	4
Images of Early Medieval England in Romance and Hagiography	Christiania Whitehead	Spring	2	4
Lecture. Introduction to Medieval English	Rory Critten	Spring	1	1
Linguistics: Second Language Acquisition Theories	Elvis Coimbra Gomes	Spring	2	4
Linguistics: The Language of Jane Austen and her Contemporaries	Anita Auer	Spring	2	4
Linguistics: Topics in Syntax	Jessica Brown	Spring	2	4
Medieval : Emotion in Chaucer's Troilus and Criseyde	Denis Renevey	Spring	2	4
Medieval : Outsiders in Early Medieval Literature	Diana Denissen	Spring	2	4
Medieval : TBD	Juliette Vuille	Spring	2	4
Shakespeare's Sonnets	Kevin Curran	Spring	2	4
Synchronic Linguistics: Language History and Language Change	Anita Auer	Spring	2	3
Synchronic Linguistics: Second Language Learning and Variation in English	Jessica Brown	Spring	2	3
The influence of Colette on XXth c. English literature: translation, reception, criticism	Martine Hennard Dutheil	Spring	2	4
Workshop. Introduction to Medieval English	Rory Critten, Diana Denissen, Juliette Vuille	Spring	2	3

## GRADUATE COURSES

Graduate courses are open only to students with a background in the subject!

A more detailed description of the course is available on [www.unil.ch/programmes](http://www.unil.ch/programmes)

### master of arts, english department

Course	Faculty staff	Semester	H/W	C
Critical Approaches	Matthew Scully, Boris Vejdovsky	Autumn	2	5
Experiments in Theater, 1950 to the Present	Kevin Curran	Autumn	2	5
Introduction to New American Studies	Agnieszka Soltysik Monnet	Autumn	2	5
Jane Austen and the Romantics	Enit Steiner	Autumn	2	5
Language and Health Communication	Elvis Coimbra Gomes	Autumn	2	5
Language and Identity	Anita Auer	Autumn	2	5
Linguistics: Old Irish II	Marion Patricia Ronan	Autumn	2	5

## FACULTY OF ARTS

## key

**H/W** Hours per week  
**C** ECTS Credits

Course	Faculty staff	Semester	H/W	C
Oikos : The Sense of Nature & Freedom in H.D. Thoreau's Walden	Boris Vejdovsky	Autumn	2	5
Queer Medieval ?	Rory Critten	Autumn	2	5
Reading and translating poetry / Lire et traduire la poésie / Gedichte lesen und übersetzen	Martine Hennard Dutheil, Irene Weber Henking	Autumn	2	5
Reading Race and Sex in American Literature	Matthew Scully	Autumn	2	5
Seamus Heaney's Elemental Poetry	Rachel Falconer	Autumn	2	5
Virginia Woolf, Colette, and the significance of the non human	Valérie Cossy	Autumn	2	5
Writing, Visions, and Altered States of Consciousness in Medieval English Literature	Denis Renevey	Autumn	2	5
New American Studies : final colloquium	Agnieszka Soltysik Monnet	Autumn & Spring		2
Participation in scientific conference	Agnieszka Soltysik Monnet	Autumn & Spring		3
American Countercultures	Agnieszka Soltysik Monnet	Spring	2	5
EcoPoetry and the Climate Emergency	Rachel Falconer	Spring	2	5
Environmental Crisis and Societal Change	Guido Palazzo, Boris Vejdovsky	Spring	2	5
Heroines on film	Mireille Berton, Valérie Cossy	Spring	2	5
Historical Sociolinguistics	Anita Auer	Spring	2	5
Ideas and politics of nature	Miriam Tola	Spring	2	3
Marlowe's Theater	Kevin Curran	Spring	2	5
Men and masculinity according to fiction around 1800 (Charrière, Constant, Austen, Shelley)	Valérie Cossy	Spring	2	5
Poetry in Public	Kirsten Anne Stirling	Spring	2	5
Reading, translating, transmediating: the case of Angela Carter	Martine Hennard Dutheil	Spring	2	5
Research Methodologies	Kirsten Anne Stirling, Jennifer Thorburn	Spring	2	5
Sex, Marriage, and Family in the Breton Lay in French and English, c. 1150-1500.	Rory Critten, Leticia Ding	Spring	2	5
Sociophonetics	Esther de Leeuw	Spring	2	5
Space and Environment in Late Medieval Literature	Denis Renevey	Spring	2	5
The Language of Obsessive-Compulsive Disorder	Elvis Coimbra Gomes	Spring	2	5
Tolkien's Environmental Vision	Rachel Falconer	Spring	2	5
Topics in Digital Linguistics	Jessica Brown	Spring	2	5

# FACULTY OF LAW, CRIMINAL JUSTICE AND PUBLIC ADMINISTRATION

## GRADUATE COURSES

A more detailed description of the course is available on [www.unil.ch/programmes](http://www.unil.ch/programmes)

### master of arts in public management and policy

key

C

ECTS Credits

Course	Faculty staff	Semester	C
Accountability in EU multi-level governance	Papadopoulos Ioannis	Autumn	3
Behavioural Public Administration and Nudge Theory	Kirklies Pascale-Catherine, Neumann Oliver	Autumn	3
Contract Economics and Organization of Public Services	Athias Laure	Autumn	3
Digital government transformation	Mettler Tobias	Autumn	3
Economics and management of sport	Terrien Mickaël	Autumn	3
Empirical analysis of public policies	Grigoriou Christopher	Autumn	3
European governance and europeanization	Mathieu Emmanuelle	Autumn	3
Fiscal Federalism and Equalization	Köthenbürger Marko	Autumn	3
Fiscal Policy	Soguel Nils	Autumn	3
Institutions and governance strategies for dealing with complex problems	Trein Josef Philipp	Autumn	3
Introduction to applied econometrics	Grigoriou Christopher	Autumn	3
Managing diversity: from migration to integration policy	Fossati Flavia	Autumn	3
Managing regulation in modern government	Allio Lorenzo	Autumn	3
Public administration and international regulation	Deruelle Thibaud	Autumn	6
Seminar optional 4 : Artificial intelligence (AI) in the implementation of public policies	Bonoli Giuliano, Körtner John, Mettler Tobias, Trein Josef Philipp	Autumn	3
Use and misuse of expertise in public policy and administration	Trein Josef Philipp	Autumn	3
Policy Evaluation	Bundi Pirmin	Spring	3
Research methods	Fossati Flavia, Tobias Mettler	Spring	3

FACULTY OF LAW, CRIMINAL JUSTICE AND  
PUBLIC ADMINISTRATION

### Master of Law

Course	Faculty staff	Semester	C
Advanced issues in International and European Tax Law	R. Danon	Fall	3
International Commercial Litigation	A. Bonomi, E. Lein	Fall	6
International Tax Disputes & Investment Treaty Arbitration	R. Danon	Fall	3
Microeconomics & Game Theory	C. Thoeni	Fall	6
Taxation of Multinational Enterprises and Transfer Pricing Policy	V. Chand	Fall	6
American Law	K. Druckman	Spring	6
Contract Drafting	E. Lein	Spring	3
Digitalization and Taxation	V. Chand	Spring	3
History of Institutions and Politicals Ideas	M. Bocchiola	Spring	3
International Commercial Arbitration	A. Bonomi, E. Lein	Spring	6
International Corporate and Individual Taxation – International and European Perspective	V. Chand	Spring	6
International Human Rights Law	E. Schmid	Spring	6
International Law and its Relations with Domestic Legal Systems	E. Schmid	Spring	3
International Tax Relations	P. Saint-Amans	Spring	3